

FIG. 1A
PRIOR ART

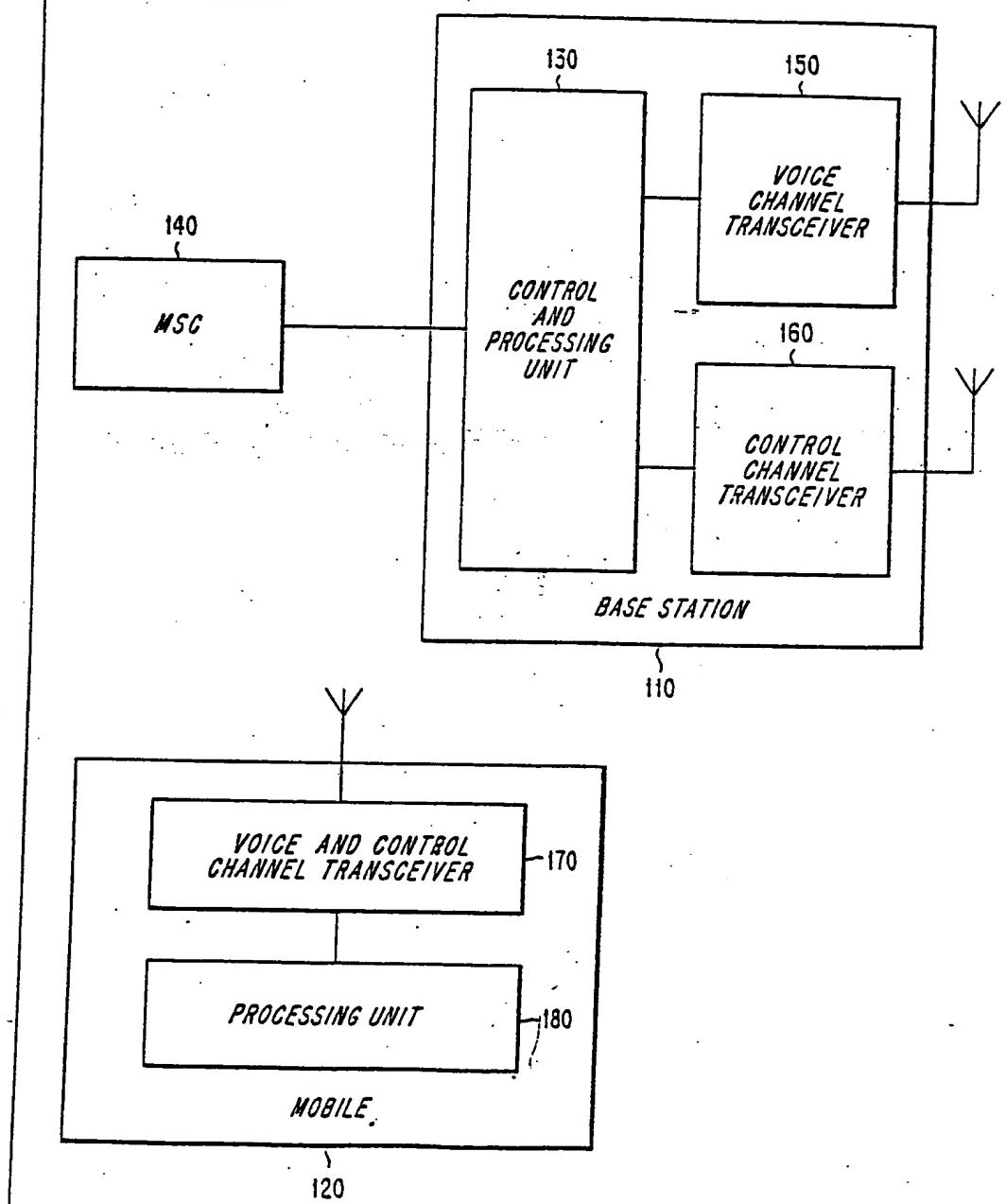


FIG. 1B

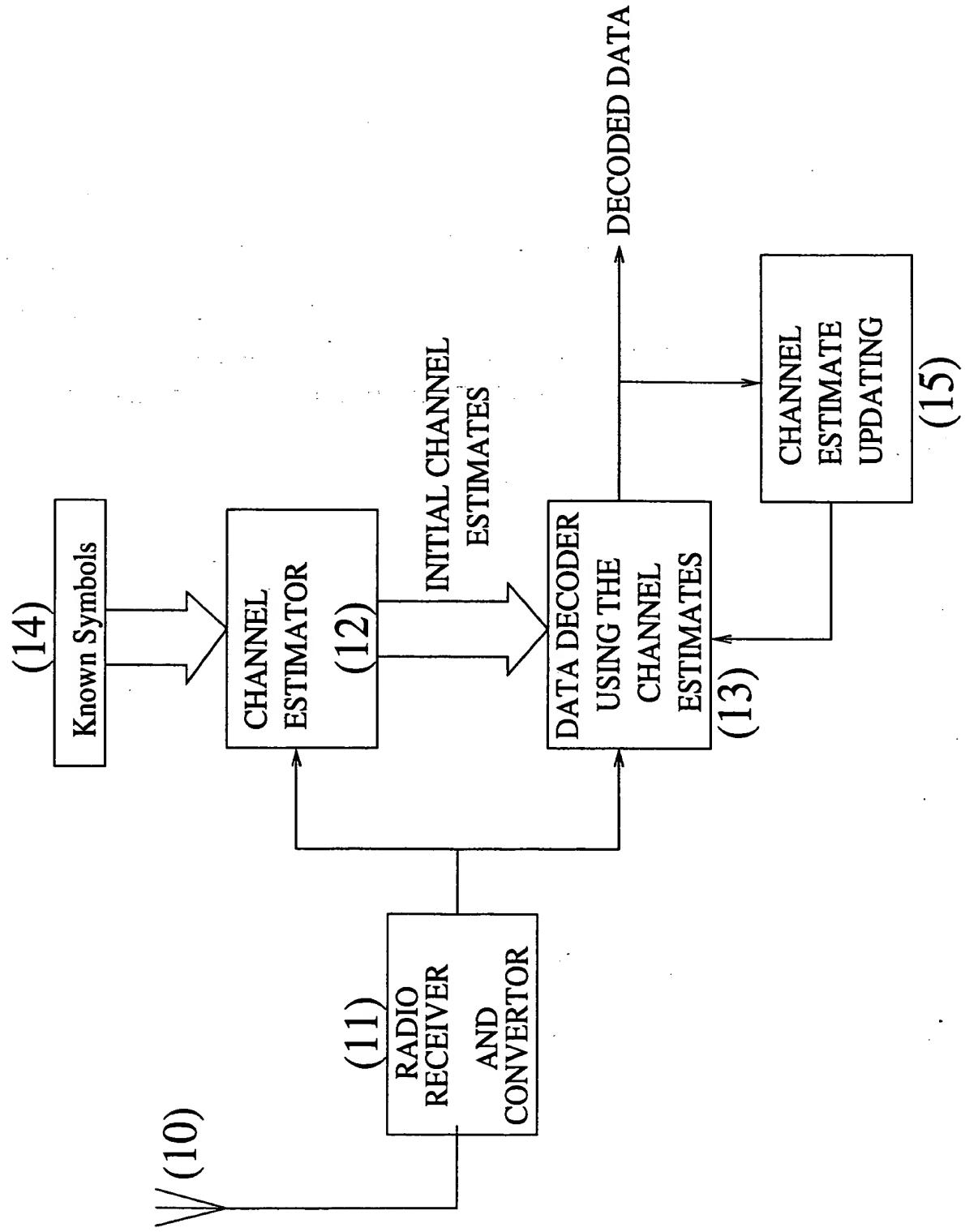


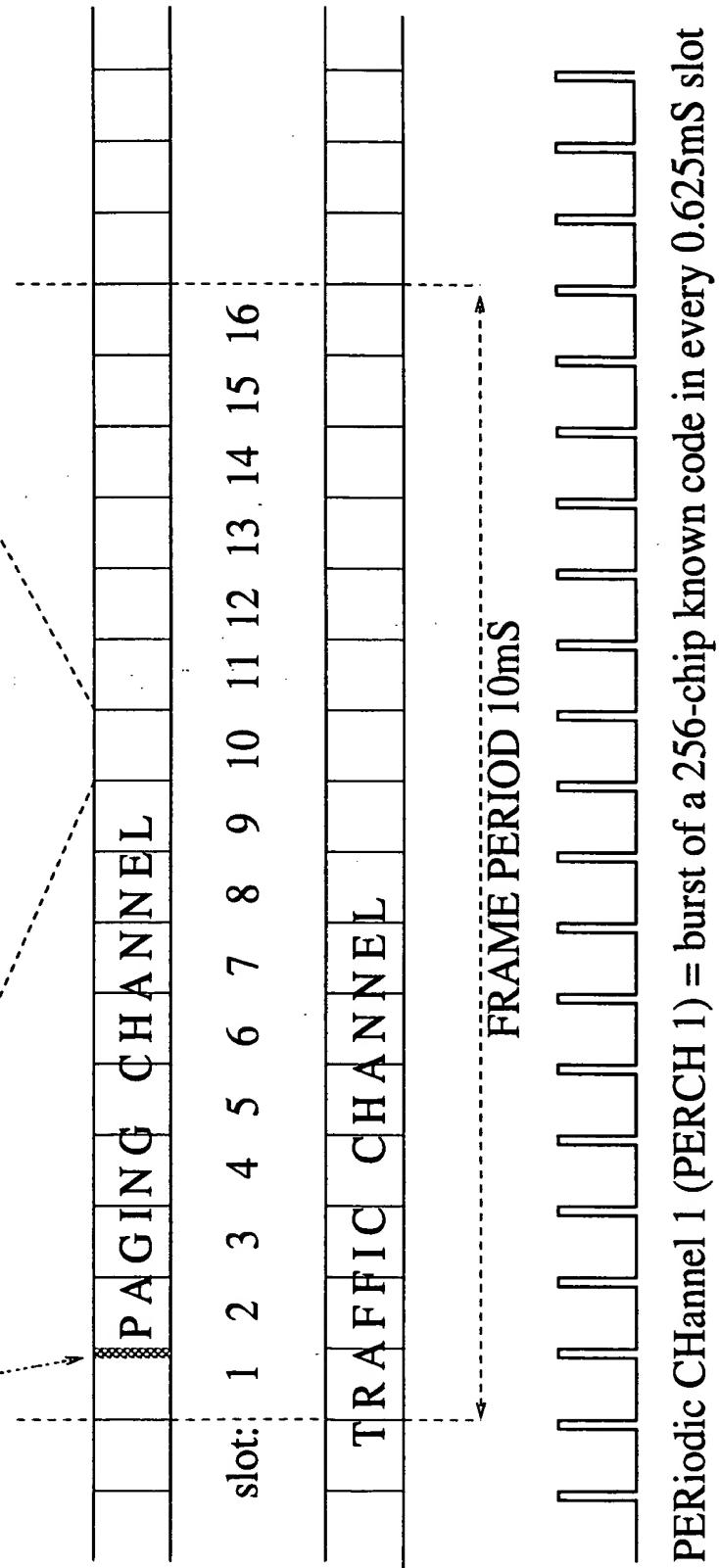
FIG. 2

Optionally the PERCH 2 signal is a CW burst in one slot per frame.

ONE SLOT = 2560 chips

256
chips

One 256-chip symbol in every paging channel slot is a PERCH 2 code.



PERiodic CHannel 1 (PERCH 1) = burst of a 256-chip known code in every 0.625mS slot

FIG. 3

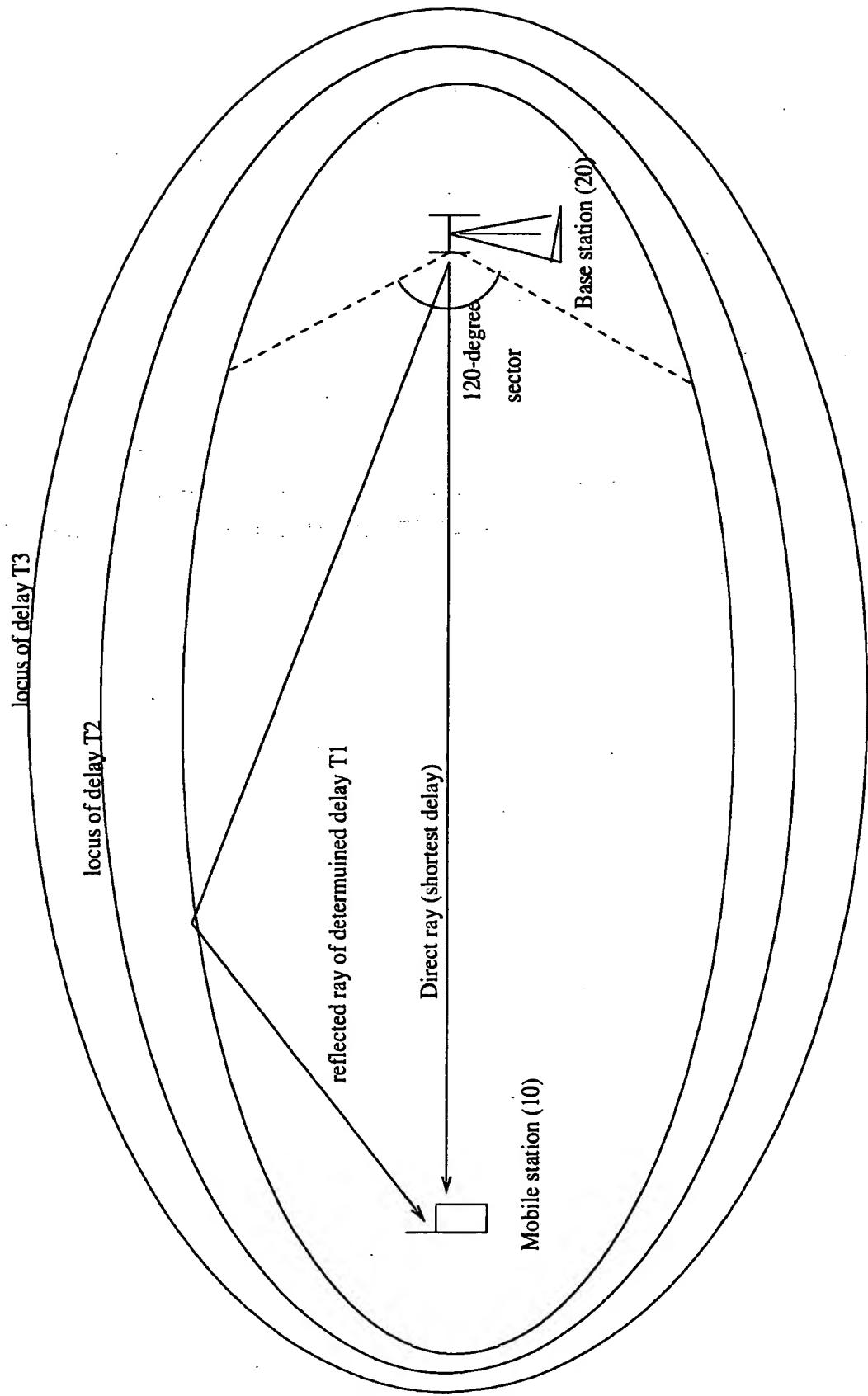


Fig. 4

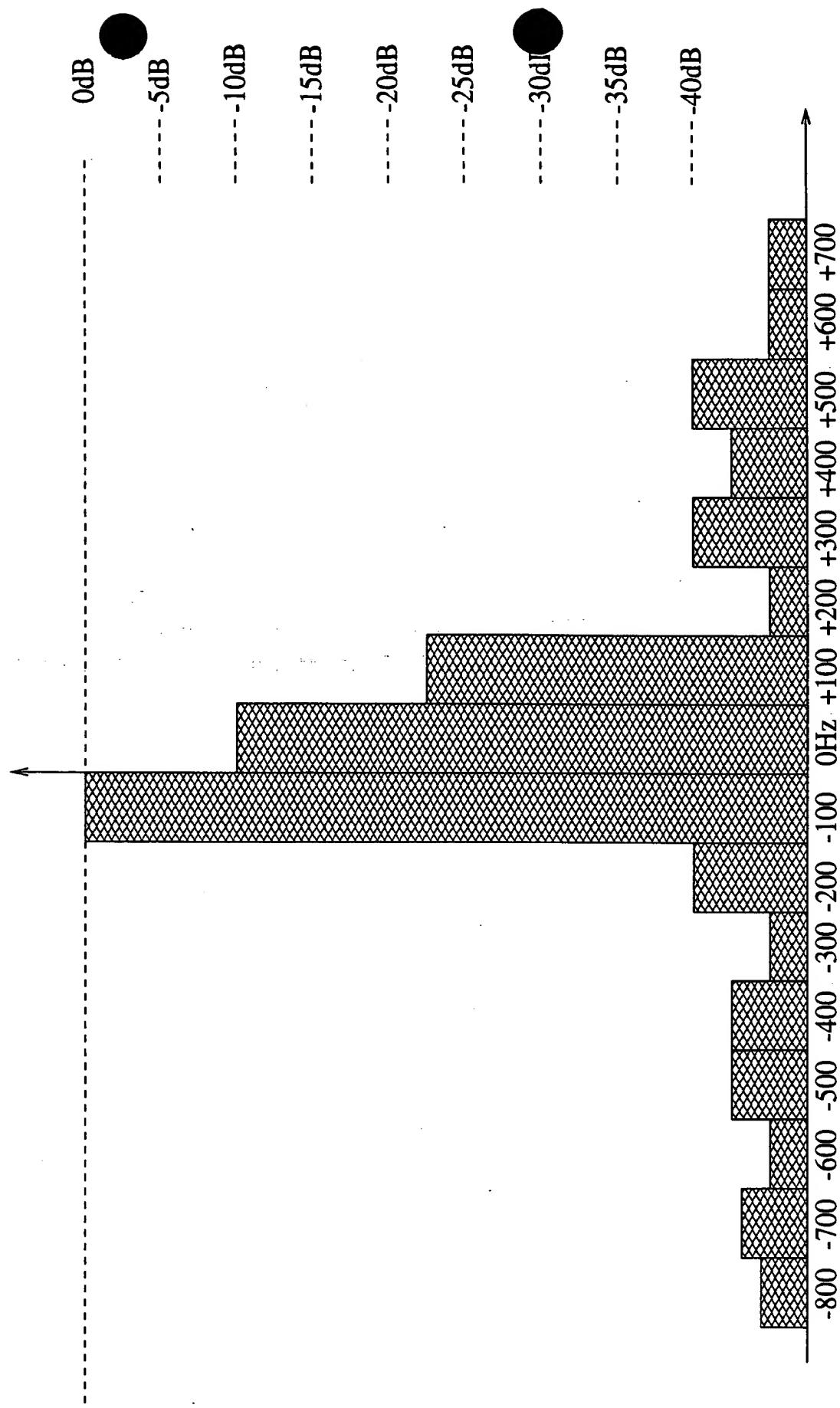


FIG.5

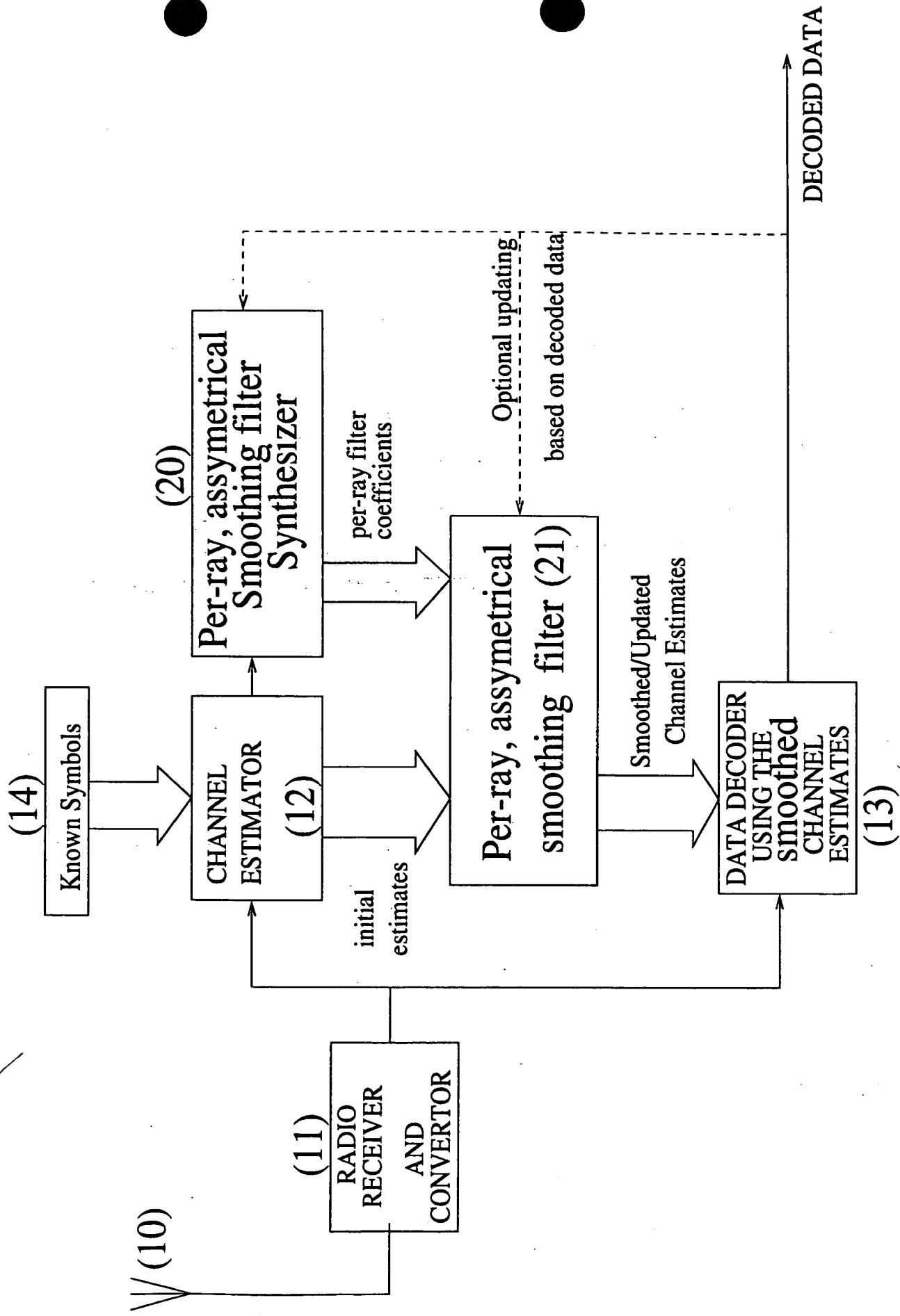


FIG. 6

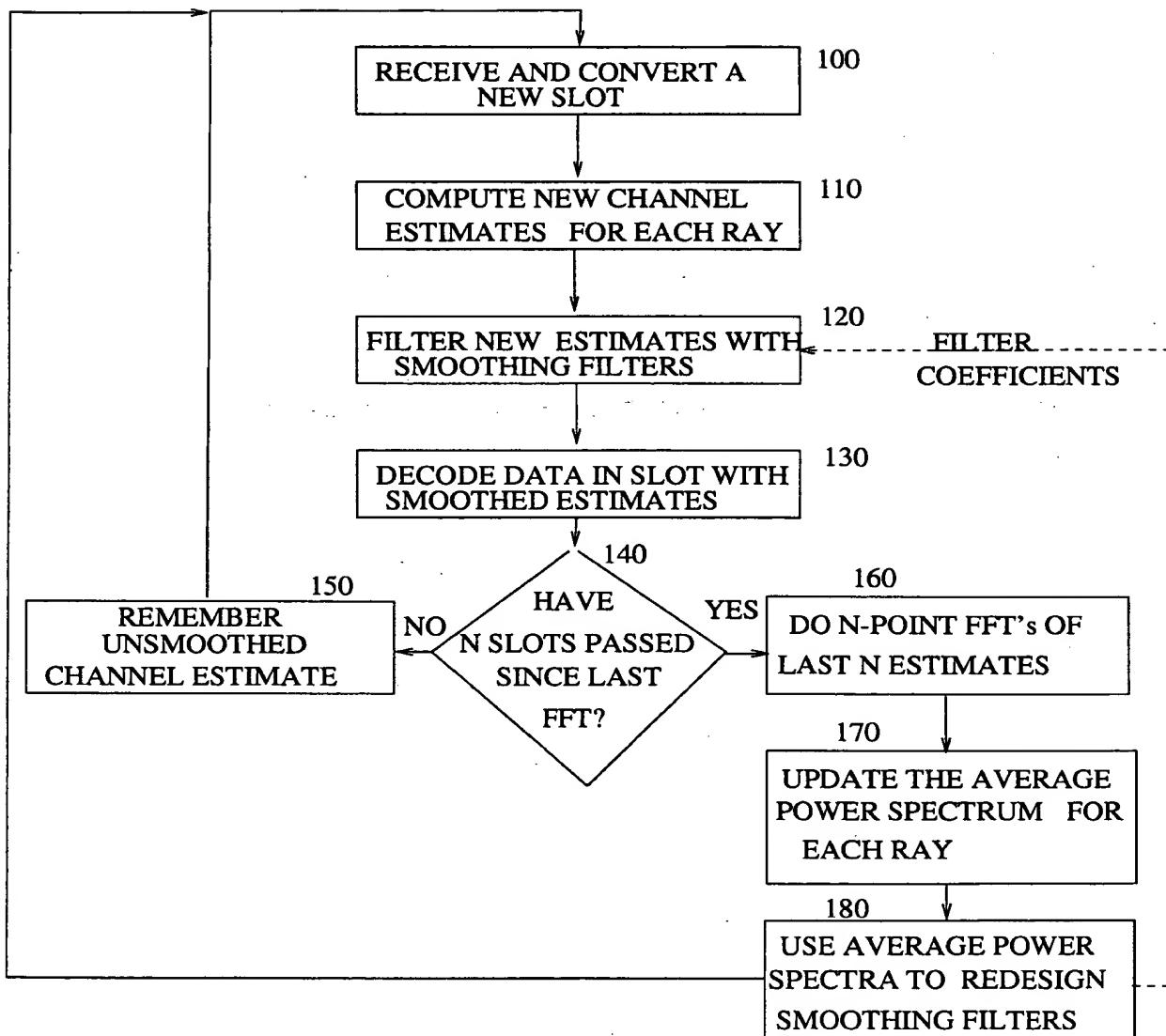
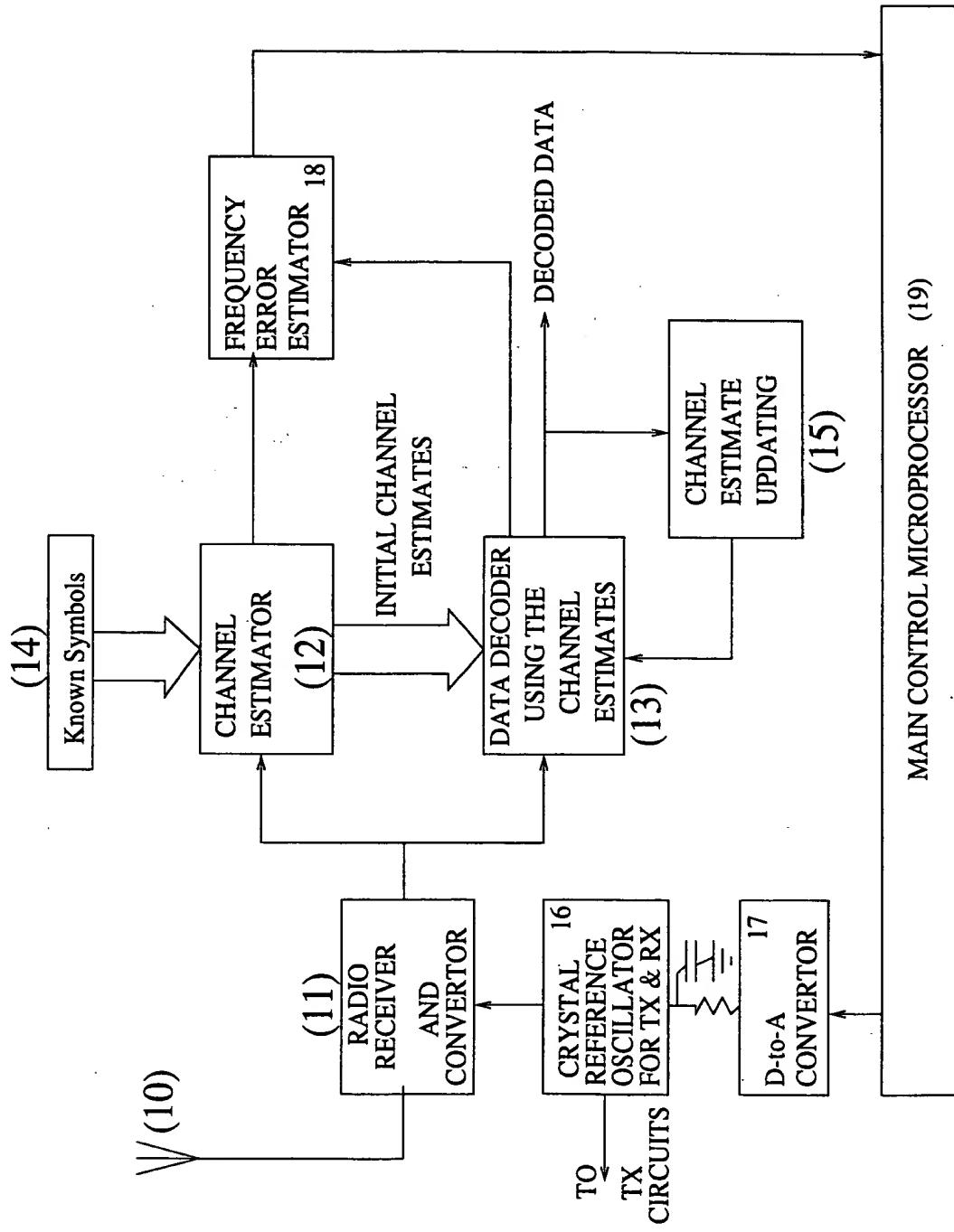


FIG. 7



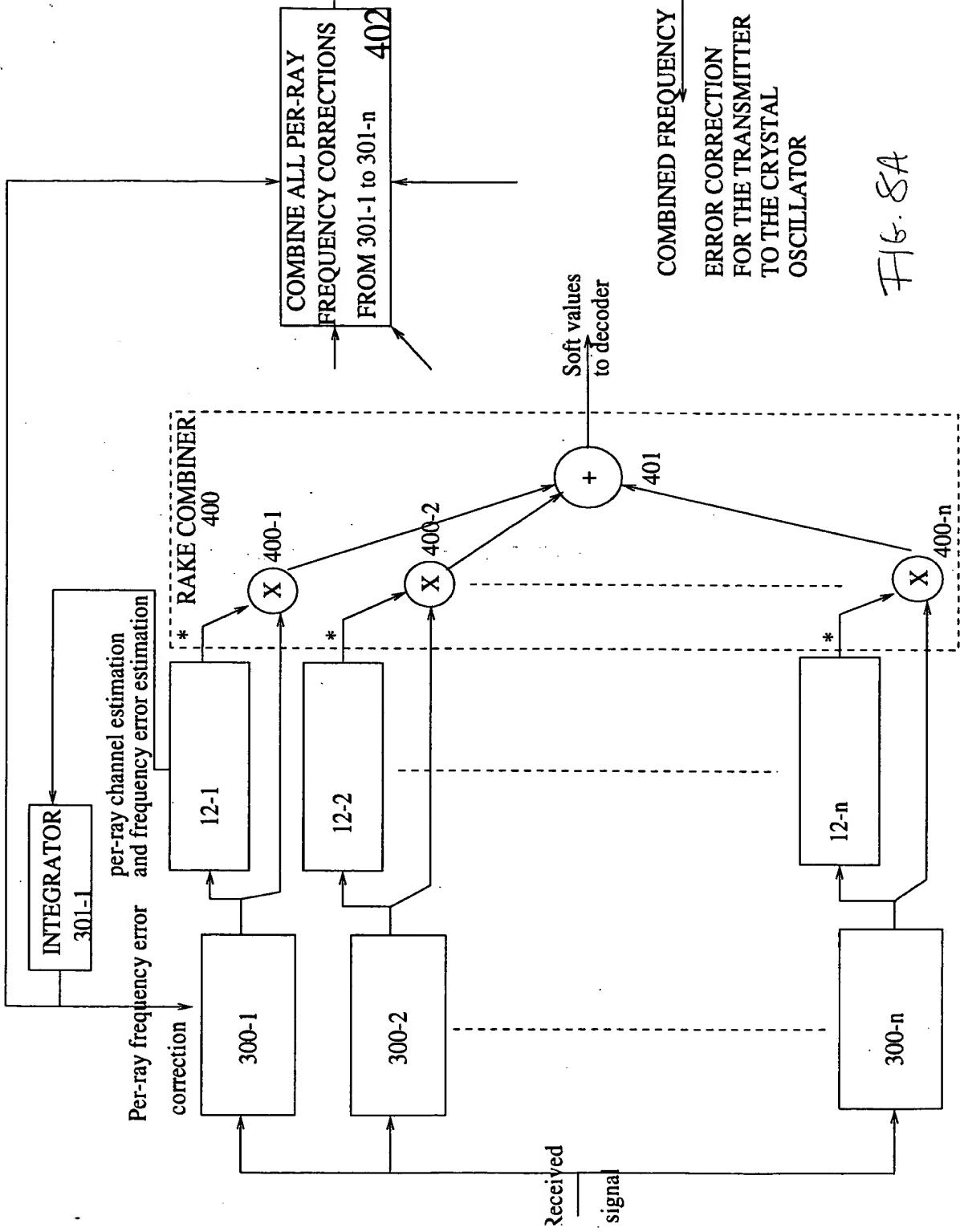


Fig. 8A

PRODUCE COMPLEX DESPREAD
VALUE STREAMS ~800

CORRECT FREQUENCY
ERRORS ON EACH
STREAM ~810

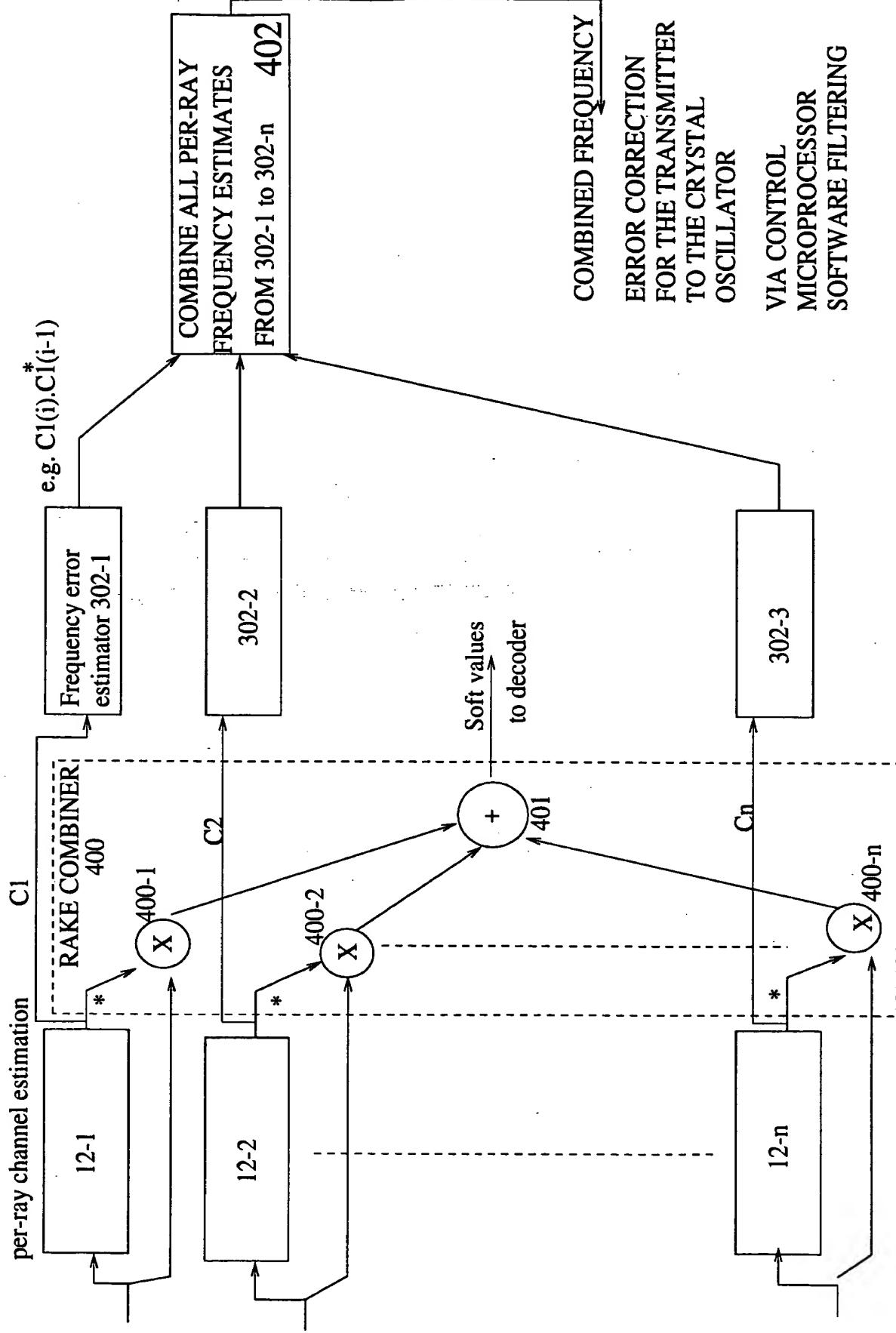
PRODUCE CHANNEL
ESTIMATES ~820

DETERMINE FREQUENCY
ERROR FOR EACH RAY ~830

COMBINE FREQUENCY
ERROR ESTIMATES ~840

FIG. 8B

FIG. 9A



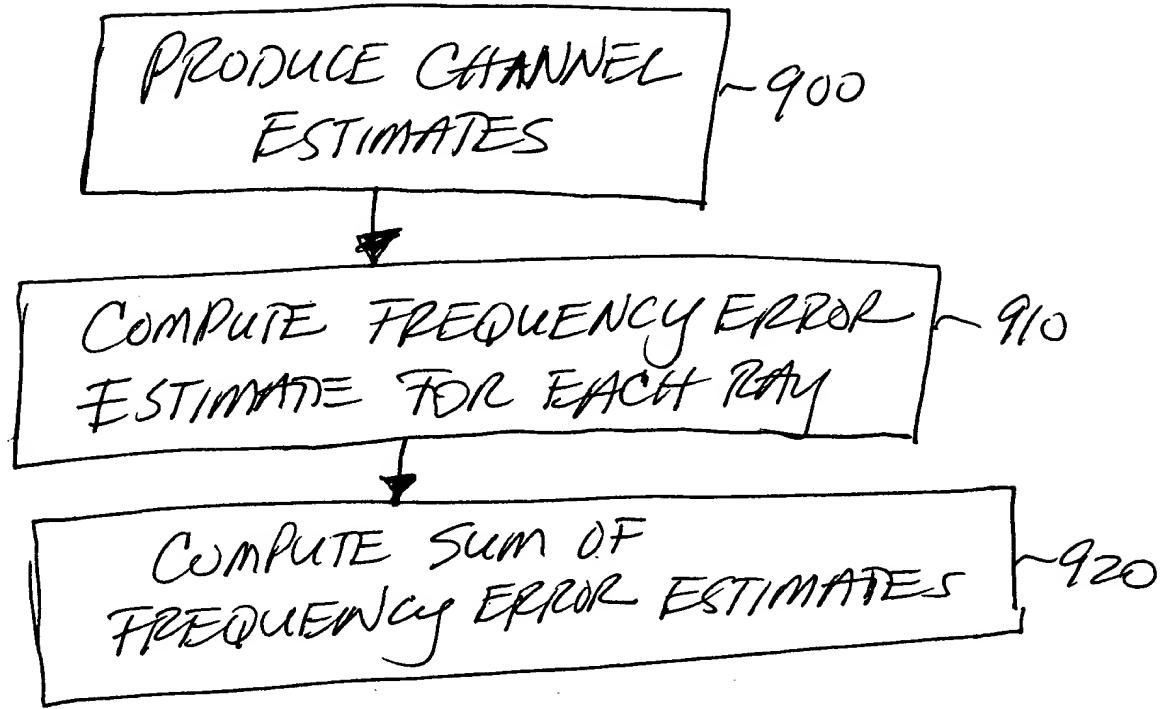


FIG. 9B

FIG. 10

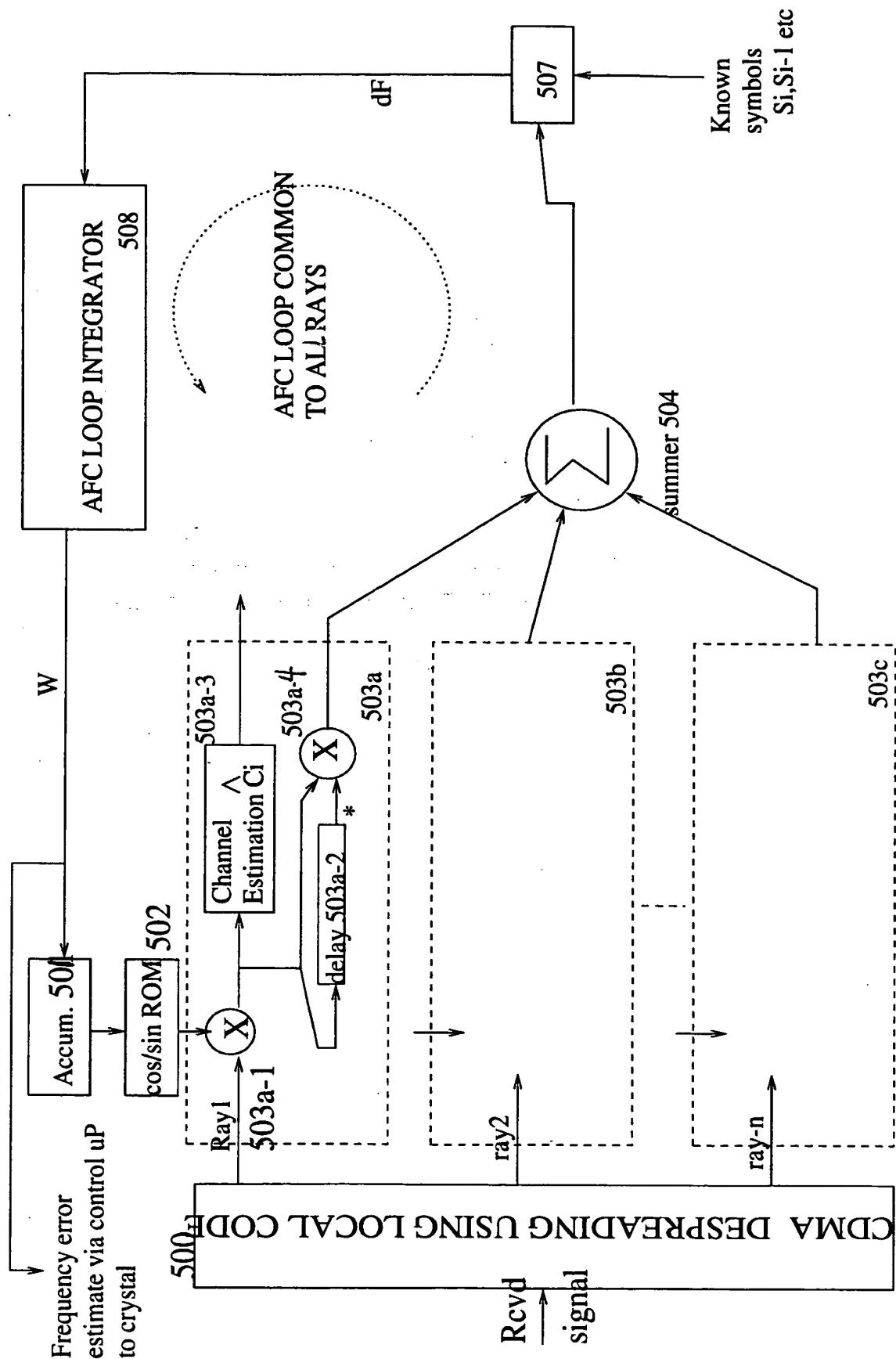


FIG. 11

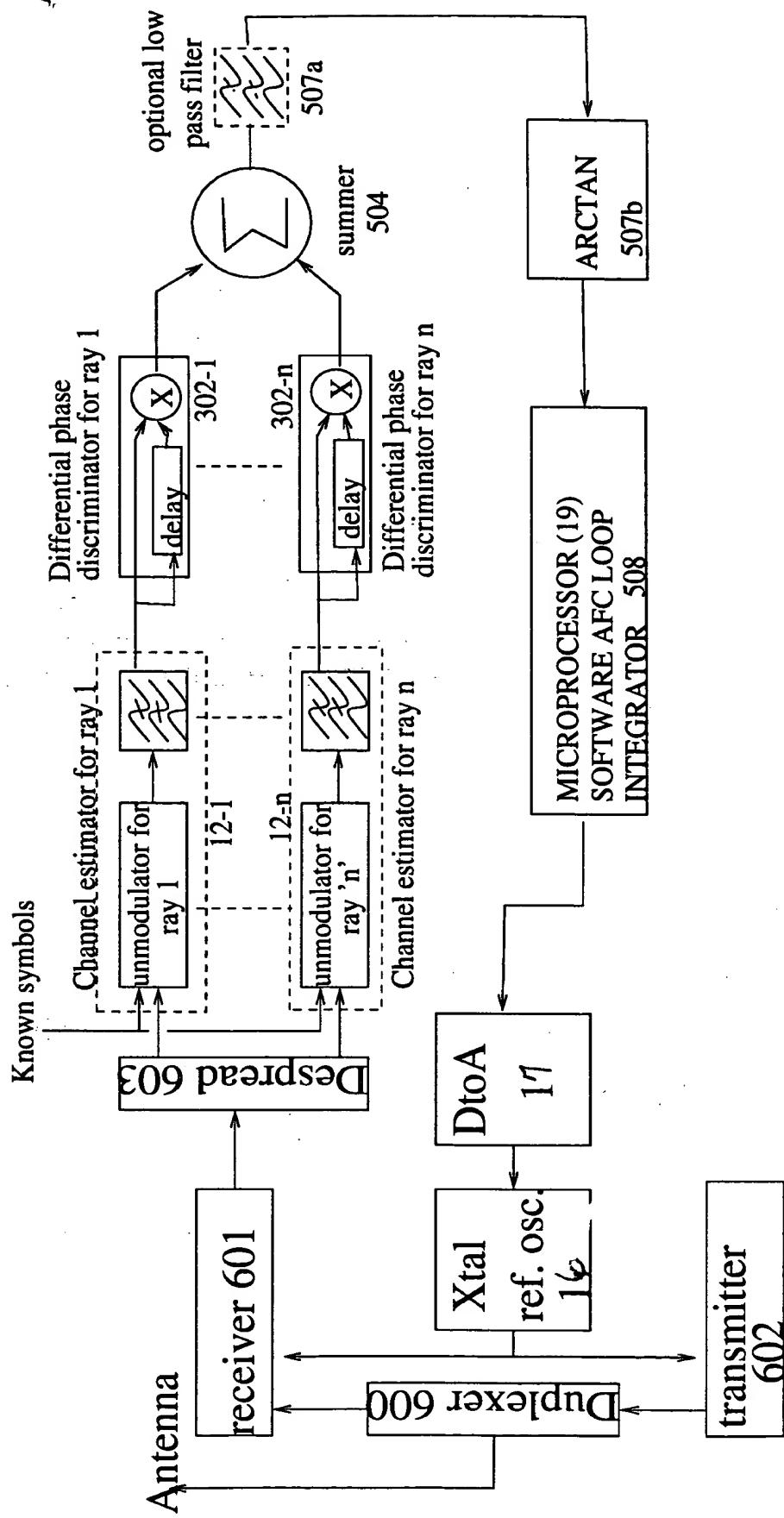


FIG. 12

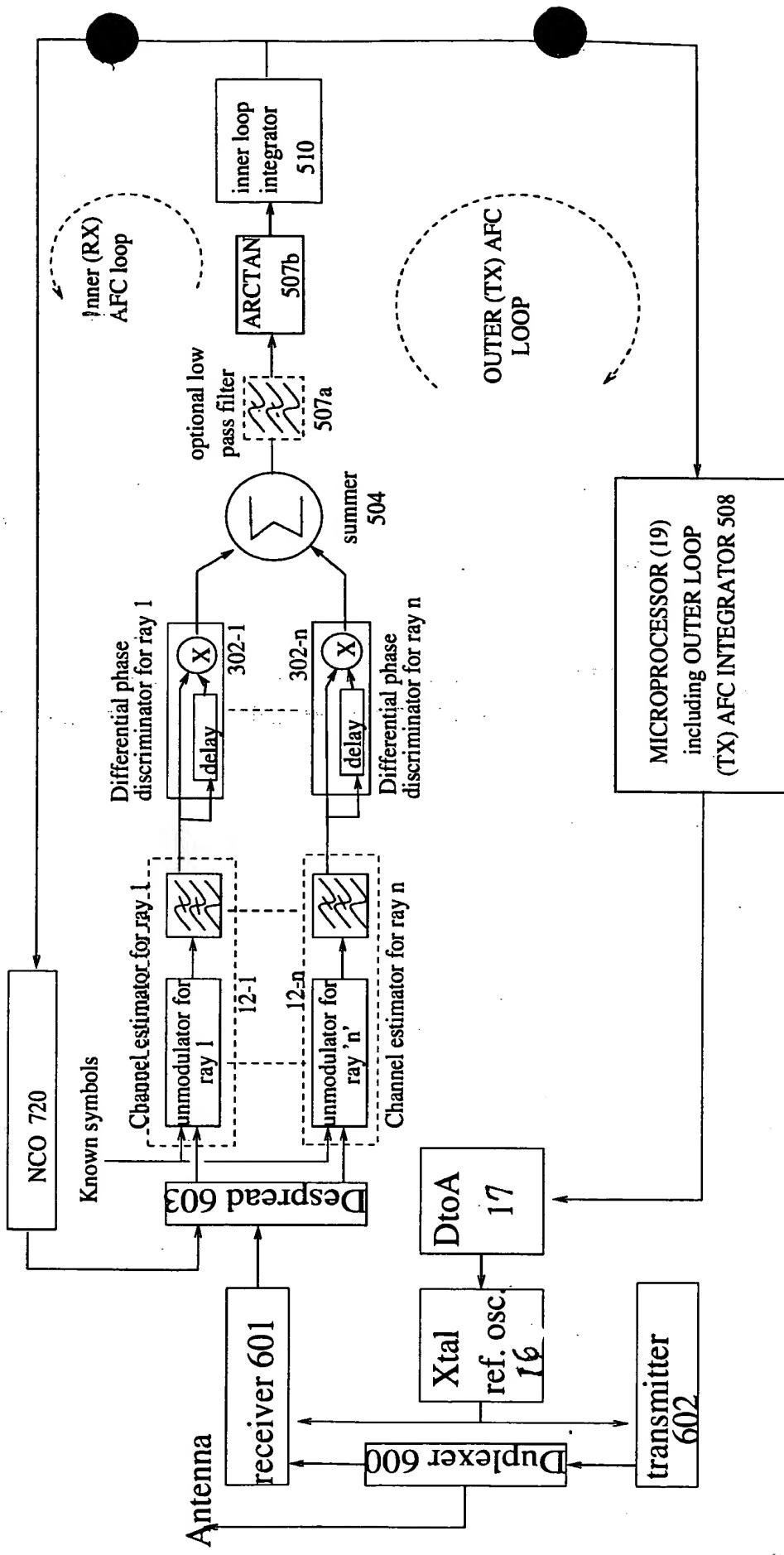


FIG. 13

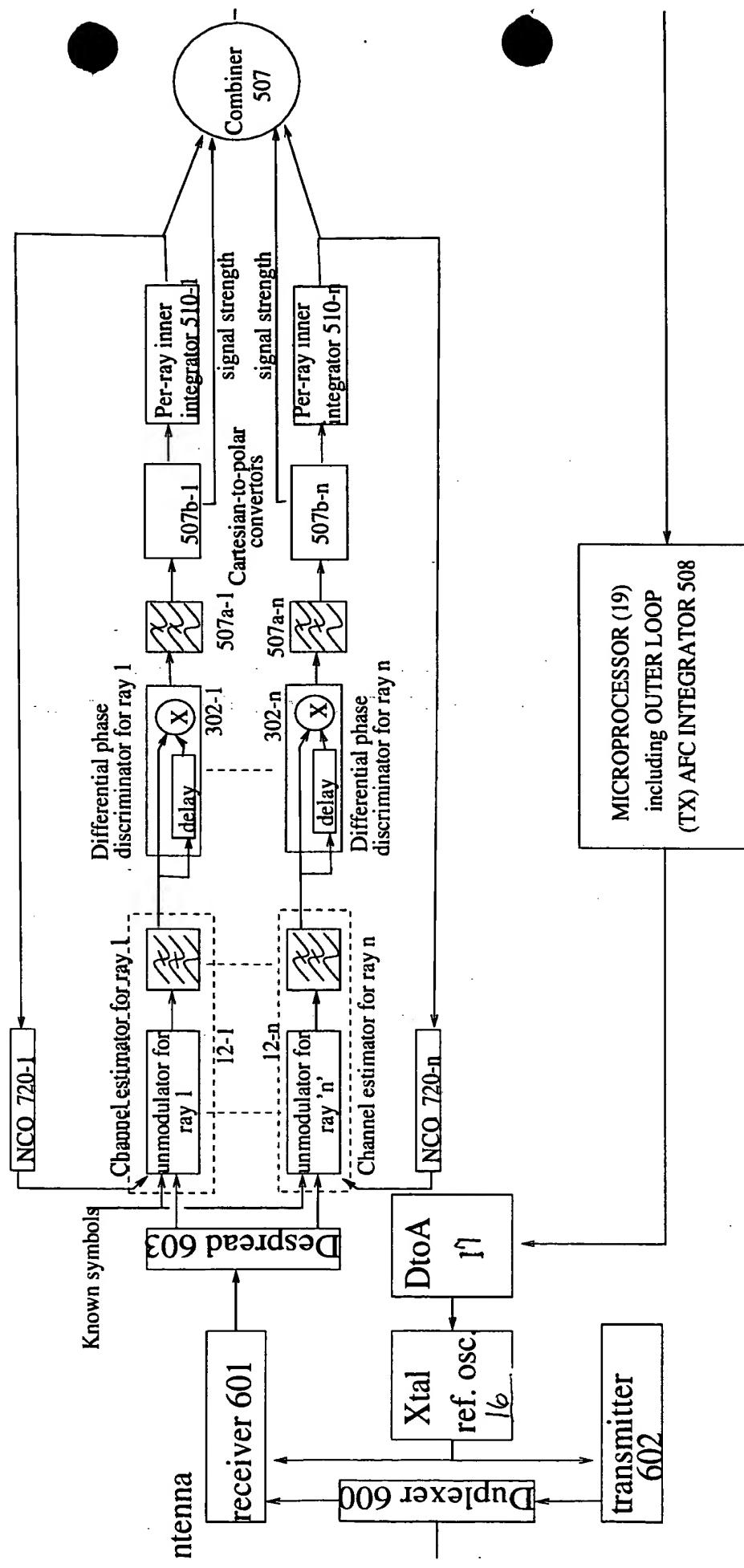


FIG. 14A

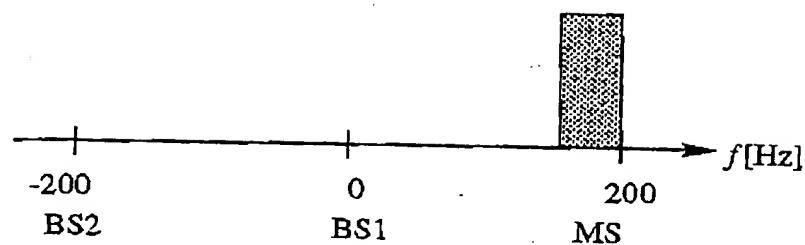


FIG. 14B

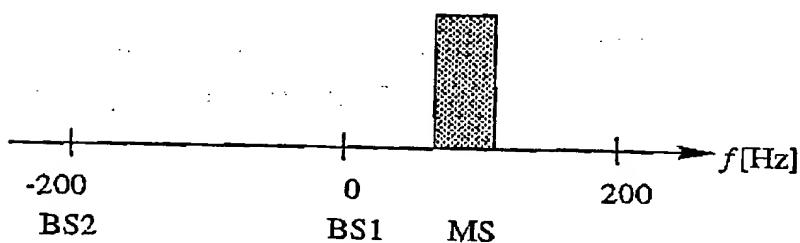


FIG. 14C

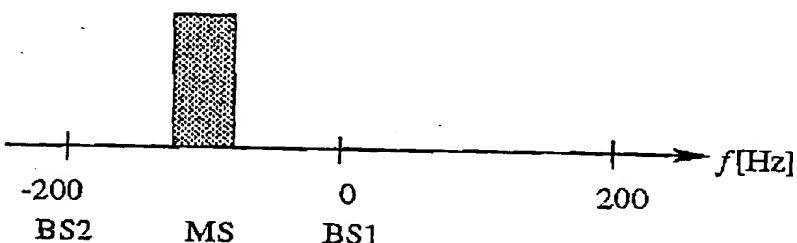
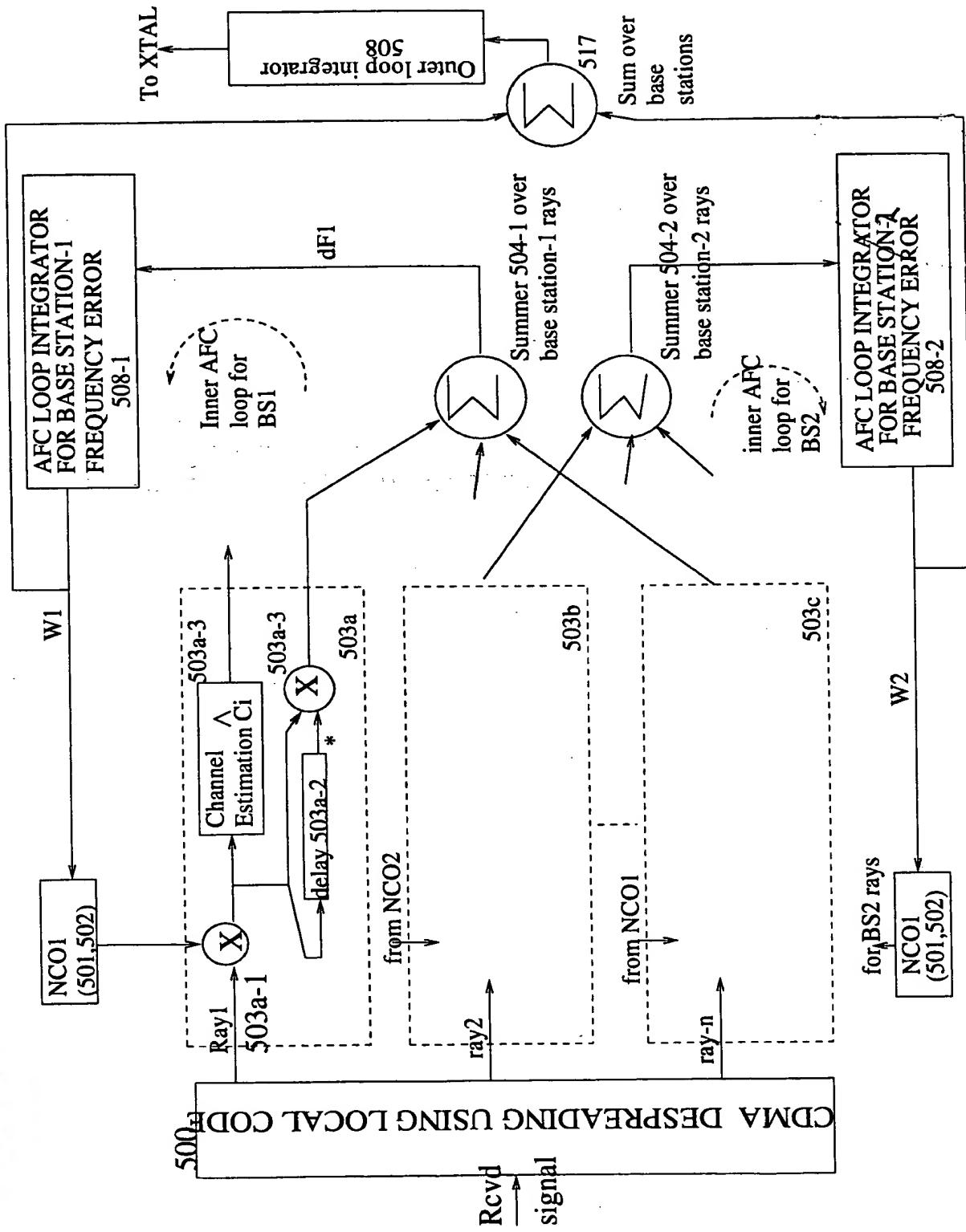


FIGURE 15A: FREQUENCY ERROR ESTIMATION FOR TWO BASE STATIONS



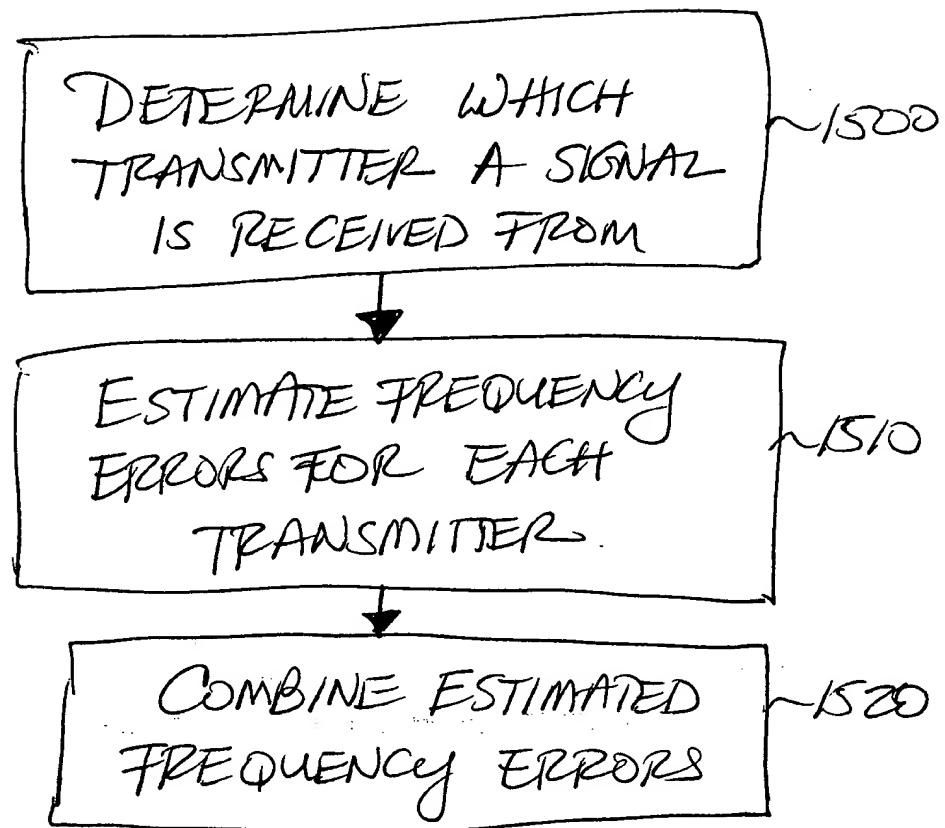


FIG. 15B